

## Morse, Bob

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**From:** Badik, Beth <Beth.Badik@parsons.com>  
**Sent:** Wednesday, July 10, 2019 1:15 PM  
**To:** Morse, Bob; Melissa Sweet (Melissa.Sweet@dec.ny.gov); Pocze, Doug; Swartwout, John (DEC); Sergott, Mark S (HEALTH); Battaglia, Randall W CIV USARMY CENAN (USA); Heaton, Charles H Jr CIV USARMY CEHNC (USA); Pommerenck, Derek A CIV USARMY CEHNC (USA); Hodges, Barry A CIV USARMY CEHNC (US); D'Auben, Michael J CIV USARMY CEHNC (US); Richard Grabowski; Edge, Helen K CIV USARMY CENAN (USA); James.t.moore@usace.army.mil; Roos, Allen D CIV USARMY CENAN (US)  
**Cc:** Belanger, Todd; daniel.r.griffiths@parsons.com; Santacroce, John  
**Subject:** Seneca preliminary PFAS data  
**Attachments:** Fig2\_S26\_PFAS\_ESI\_Proposed\_070819.pdf; Fig1\_S25\_PFAS\_ESI\_Proposed\_070819.pdf

All:

Here is the preliminary PFAS ESI data for Seneca. This data has not been validated yet.

Figures 1 and 2 show the posted preliminary data for PFOS and PFOA at SEAD-25 and SEAD-26, respectively. These figures also include proposed additional groundwater well locations and surface water sample locations.

Overall summary:

- Identified two sources near SEAD-25: One near the fire training pad, and a second source near the Fire House
- SEAD-25 groundwater plume has not been delineated to the southwest
- Surface water at SEAD-25 is impacted by PFAS and extent is not delineated.
- SEAD-26: narrow plume defined, though the full downgradient (western) extent is not fully delineated. Questions about whether the northwesterly and southwesterly extent is fully bounded.

Fire House (near SEAD-25)

- 1 of 3 wells dry.
- Of the two wells sampled, one exceeds the 70 ng/l standard and the other is below.
- Propose **1** additional well (MWFH-04) to define localized groundwater flow direction near the fire house.

SEAD-25

- The source of PFAS impacts is identified from the SI.
- Area due north (MW25-20) and to the west (MW25-25, 24, -23) were not impacted by PFAS – so these edges of the site are bounded.
- Need further delineation to the south and west.
- Propose the following:
  - Add **2** wells south of the drainage ditch (MW25-27 and MW25-26), and add a **1** more well further downgradient at the intersection of Ordnance Rd and 1<sup>st</sup> Street.
  - Add a **1** more well (for a total of **4** new wells) immediately downgradient of the “V” where the two drainage ditches converge.
- Surface Water impacted
  - Propose collection of **2** additional surface water samples, downgradient of SW25-2 and the “V”
  - If present, propose collection of **2** additional surface water samples in the drainage ditch flowing from East Patrol Rd to the west towards the other creek.
  - Total of **4** proposed surface water samples

SEAD-26

- As noted above, general (narrow) definition
- Impacts need to be defined further downgradient to the west of MW26-16.
  - See inset in Figure 2: Propose **2** wells (MW26-18 and MW26-19) near the railroad tracks downgradient of MW26-16.

- An additional 1 well (MW26-20) to be located approximately 900 feet downgradient of MW26-16. Another 1 new well (for a total of 4) may be added as a contingency further downgradient of MW26-20, depending on the analytical results. (Exact location may depend on ground conditions and accessibility– area appears very wet and marshy).
- There is an elevation change by the railroad tracks – the tracks are lower than the upgradient and downgradient areas. Propose field reconnaissance of downgradient slope north of railroad tracks to identify if there are seeps. If seeps are present, up to 3 water samples may be collected and analyzed for PFAS.

We provide this summary, proposals, and these figures as the basis for discussions next week. We look forward to talking further.

**Beth Badik**

Senior Project Manager

100 High St, 4th Floor - Boston, Massachusetts 02110

[beth.badik@parsons.com](mailto:beth.badik@parsons.com) – Phone: 617.449.1565 Mobile: 617.429.9624

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